

SAFETY DATA SHEET

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Eco Solvent Ultra Black
VJ-MSINK3A-BK220 / VJ-MSINK3A-BK440 / VJ-MSINK3A-BK1000

Manufacturer or supplier's details

Company : MUTOH AUSTRALIA PTY. LTD.
Address : Unit 19/76 Reserve Road, Artarmon, NSW 2064, Australia
Contact section : admin@mutoh-au.com or +61 2 9437 1366
Telephone : +61 2 94371366
Emergency telephone number : Emergency phone number (business hours): +61 2 9437 1366

Recommended use of the chemical and restrictions on use


Recommended use : Digital Printing

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 4
Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 2A
Reproductive toxicity : Category 1B

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : Combustible liquid.
Causes skin irritation.
Causes serious eye irritation.
May damage fertility or the unborn child

Precautionary statements : **Prevention:**
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
IF exposed or concerned: Get medical advice/ attention.
IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:

Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents/ container in accordance with related laws and local/ regional regulations.

Other hazards which do not result in classification

Ink contact with skin may cause irritation, swelling or redness.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Diethylene glycol diethyl ether	112-36-7	55 - 65
Tetraethylene glycol dimethyl ether	143-24-8	10 - 20
Gamma-butyrolactone	96-48-0	<20
Proprietary organic materials	Trade secret	1 - 10
Tetraethylene glycol monobutyl ether	1559-34-8	1 - 5
Carbon Black	1333-86-4	1 - 5

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Inhalation : IF exposed or concerned: Get medical advice/attention. Remove subject to ventilated fresh air. If not breathing, give artificial respiration right away. If breathing is difficult, give oxygen.

Skin : IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

Eyes : Immediately flush with room temperature, low pressure and clean water for at least 15 minutes. Seek medical attention if eye irritation continues.

Ingestion : IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Do not induce vomiting.

Most important symptoms and effects, both acute and delayed : Skin: Ink contact with skin may cause irritation, swelling or redness.

Indication of any immediate medical attention and special treatment needed : Not necessary

SECTION 5. FIREFIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media : Water spray
Dry chemical
Carbon dioxide (CO2)
Alcohol-resistant foam

Unsuitable extinguishing media : None known.

Special hazards arising from the substance or mixture : None

Advice for firefighters : Extinguish to use fire fighting media or plentiful fog water. Put protection wear without fail in case of fire fighting work; do not work in the leeward.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Eye or Skin protection required during clean-up. Use proper ventilation.

For emergency responders: None

Environmental precautions : Do not release to sewer, surface-or ground-water.

Methods and materials for containment and cleaning up

Advice on how to contain a spill : Use sponges to wipe-up ink.

Advice how to clean-up a spill : Rinse area with damp cloth. Place waste in closed container for disposal. Wash hands with soap and water.

Any other information : Do not dispose of waste to the sewer.

Reference to other sections : Please refer SECTION 13 for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Recommendations : Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use proper ventilation and no fire in work place.
Keep out of reach of children and do not drink ink.
Do not dismantle cartridge.

Advice on general occupational hygiene : Avoid contact with skin, eyes or clothing.
In the case of skin contact, wash with soap and water.

Conditions for safe storage, including any incompatibilities : Store locked up.
Do not store the cartridge in high or freezing temperatures.
Keep cartridge out of direct sunlight.
Do not store the cartridge with oxidizing agents or explosives.
Make sure cartridge is dry before insertion into printer housing.

Specific end use(s): : Not specified.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Carbon black	1333-86-4	TWA	3 mg/m ³	AU OEL
		TWA (Inhalable fraction)	3 mg/m ³	ACGIH

Exposure Controls

Appropriate engineering controls : Proper ventilation.

Individual protection measures, such as personal protective equipment

Use of personal protective Equipment : Not required under suitable use as setting the cartridge on the printer under ventilation.
If there is a possibility of exposure to raw ink: Wear protective gloves/ protective clothing/ eye protection/ face protection/ respiratory protection.

Detailed specification on equipment to provide adequate and suitable protection

(a) eye/face protection : Not required under suitable use as setting the cartridge on the printer.
If there is a possibility of exposure to raw ink: Wear eye protection/ face protection.

(b) skin protection: hand protection & Others : Not required under suitable use as setting the cartridge on the printer.
If there is a possibility of exposure to raw ink: Wear protective gloves/ protective clothing

(c) respiratory protection : Not required under suitable use as setting the cartridge on the printer under ventilation.
In case of inadequate ventilation wear respiratory protection.

(d) thermal hazards : Not required under suitable use as setting the cartridge on the printer.

Environmental exposure controls : Not established

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : black

Odour : slightly

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : No data available

Flash point : about 71°C (Closed cup)

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Flammability (liquids) : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density	: Greater than 1 (air=1)
Relative density	: No data available
Solubility(ies)	: soluble
Partition coefficient: n-octanol/water	: Not applicable
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	
Viscosity, kinematic	: No data available
Explosive properties	: Explosive limits:1.4-6.9v/v% as Gamma-butyrolactone
Oxidizing properties	: None
Particle size	: Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under normal temperature
Chemical stability	: Stable under normal temperature
Possibility of hazardous reactions	: None
Conditions to avoid	: High and freezing temperatures
Incompatible materials	: Oxidizers and explosives
Hazardous decomposition products	: No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity	: Oral LD50: > 2500 mg/kg (Rat) Dermal LD50: > 2000 mg/kg (Rat)
Irritation	
Eye	: Moderate irritant (Rabbit, OECD 405) Not meet the criteria for classification according to EU Directive 1999/45/EC Category2 for classification according to EU Directive (EC) No 1272/2008
Skin	: Mild irritant (Rabbit, OECD 404)
Corrosivity	: Not meet the criteria for classification according to EU Directive 1999/45/EC
Sensitisation	
Skin	: Non-sensitizer (LLNA, OECD 429)
Carcinogenicity	: With excessive exposure, carbon black has been listed as a possible human carcinogen.

However, as engineered within this ink cartridge, emissions to air of carbon black during normal printing use have not been found. IARC, the International Agency for Research on Cancer, has found printing inks to be not classifiable as human carcinogens.

Mutagenicity : Negative (by Ames Test)

Toxicity for reproduction : T; R61,62 for classification according to EU Directive 1999/45/EC
Category 1B for classification according to EU Directive (EC) No 1272/2008

SECTION 12. ECOLOGICAL INFORMATION

Toxicity : No data available

Persistence and degradability : No data available

Bioaccumulative potential : No data available

Mobility in soil : No data available

Results of PBT and vPvB assessment : Has not carried out PBT and vPvB assessment

Other adverse effects : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods : Disposal should be in accordance with federal, state, and local requirements.
in accordance with applicable laws and regulations, and product characteristics at time of disposal.

SECTION 14. TRANSPORT INFORMATION

UN number : Not applicable

UN proper shipping name : Not applicable

Transport hazard class(es) : Not applicable

Packing group : Not applicable

Environmental hazards : Not applicable

Special precautions for user : Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform Scheduling of Medicines and Poisons : No poison schedule number allocated

Prohibition/Licensing Requirements : There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

The components of this product are reported in the following inventories:

AICS : All ingredients listed or exempt.

SECTION 16. OTHER INFORMATION

Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.
ACGIH / TWA : 8-hour, time-weighted average
AU OEL / TWA : Exposure standard - time weighted average

This "Safety Data Sheet" contains health, safety, and environmental information. It does not replace any precautionary language or use and disposal information which accompanies the product. The information contained herein is believed to be accurate at the time of preparation, but should only be used as a guide. It is subject to revision from time to time. MUTOH does not warrant the completeness or accuracy of the information contained herein.